



Insights of a Number of Ongoing Research on Elites in Latin America

Topics, Methods and Possibilities for Comparison

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Round Table on Economic Elites, State and Social Inequalities in Latin America
Congress of the Latin American Studies Association
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Open Data on Chilean Cabinets

Data on Chilean Ministers (1990-2014)

Codebook v 3.3.6

Data Set on Chilean Ministers (1990-2014)

<https://doi.org/10.5281/zendos/5744536>

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This data set contains information in  Comma-Separated Values (CSV) format with Unicode encoding (UTF-8) (**N = 232**).

The data collection was carried out based on official sources such as archives of Congress and ministries, the National Library, and press archives.

Further Details

González-Bustamante and
Olivares (2022a)

Data on Chilean Undersecretaries (1990-2022)

This data set contains information in  Comma-Separated Values (CSV) format with Unicode encoding (UTF-8) (**N = 425**).

The data collection was carried out based on official sources such as archives of Congress and ministries, the National Library, and press archives.

Further Details

González-Bustamante and Olivares (2022b)

Codebook v 2.1.3

Data Set on Chilean Undersecretaries (1990-2022)

<https://doi.org/10.5281/zenodo.5715384>

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Preservation and Data Sharing

Both data sets are stored with version control on  GitHub repositories with controlled access with  Two-Factor Authentication (2FA) with cryptographic authentication FIDO2 and U2F.

Repositories are backed up on  Hierarchical File Server (HFS) for recovery in case of incidents. Backup is located on the  University of Oxford hub connected to Code42 Cloud Backup encrypted with 256-bit AES. Zenodo provides DOI.

The content is licensed under a  Creative Commons Attribution 4.0 International license (**CC BY 4.0**), and the underlying code is licensed under an MIT license. Codebooks were compiled with Xe^LA_TE_X using a code under an LPPL v1.3c license.

Example of Code to Import Data

```
1 ## GitHub Repository
2 github_1 <- "https://raw.githubusercontent.com/"
3 github_2 <- "bgonzalezbustamante/chilean-ministers/main/data/tidy/"
4
5 ## Chilean Ministers Data
6 chilean_ministers <- read.csv(paste(github_1, github_2,
7                               "Chilean_cabinets_1990_2014.csv", sep = ""),
8                               header = T, sep = ",", encoding = "UTF-8")
```

Further Details

Code chunk colours based on [Vibrant Ink Flavoured v1.2.1](#) template. Our codebooks and repositories present direct import codes for R and Python.

Data Collection on Boards of Directors

Data Collection on Boards of Directors (2001-2022)

We used data from the **Financial Market Commission**, which supervised more than 70% of financial assets in Chile, to identify board members and CEOs of a number of companies.

We have elaborated a list of **board members** and **CEOs** for **463 and 451 companies**, respectively.

Currently, we are collecting data from the **board members** list. Our progress is **21%**, which implies **4,280 individual observations**.

Work in Progress

This work in progress, coauthored with C Cisternas, is at an early stage. Our thanks to our research assistants V Liberona and M Carrillo.

Stochastic Actor-Oriented Models

Our empirical strategy will be similar to [González-Bustamante and Cisternas \(2022\)](#) based on SAO models developed by [Snijders \(2001; see also Snijders et al., 2010\)](#).

This approach is part of the family of models for **dynamic networks that show changes in the networks**, between two discrete points of time, by examining the evolution of ties between the actors ([Kalish, 2019; Pink et al., 2020](#)).

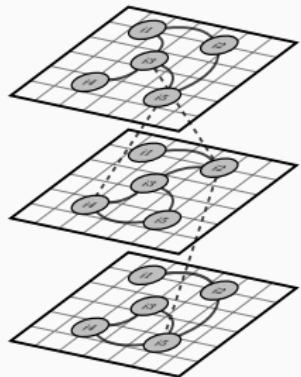
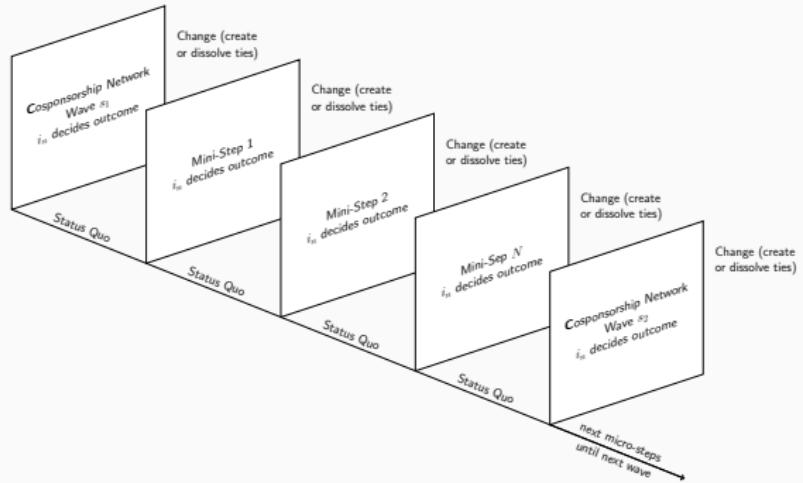
To implement the SAO analysis, we hope to employ Simulation Investigation for Empirical Network Analysis (**SIENA**; see [Snijders, 2001; Snijders and Pickup, 2017](#)).

Stochastic Actor-Oriented Models

The SAO analysis implies evaluating the evolution and formation of ties. Following Pink et al. (2020), between s_j and s_{j+1} there are three potential outcomes regarding the existing relation: (i) the creation of new ties; (ii) maintenance of the status quo; and (iii) dissolution of existing ties.

This decision occurs among what this approach calls **mini-steps calculated with simulations**, which consider potential decisions that an actor might make based on previous outcomes and the potential status of the social network that could be induced by possible actions by the individuals (Snijders, 2001; Snijders et al., 2010, see also Pink et al., 2020).

Example of Choice Modelling Networks Scheme



Source: [González-Bustamante and Cisternas \(2022\)](#).

NLP for Data Collection on Resignation Calls

NLP for Data Collection

This is a work in progress that presents a new data set created using **Natural Language Processing (NLP)** and **machine learning techniques**.

The data set contains detailed information on the cabinet turnover in 12 Latin American democracies from the time of redemocratisation between the 1970s and 1980s, depending on the case, up until the end of the latest presidential terms.

We used a number of sources of public information and press reports that were digitised with data mining algorithms. Using machine learning models, we were able to identify **ministerial resignation calls** (empirically efficient indicators of random shocks; see [Berlinski et al., 2010](#)).

This data is **completely novel for Latin American presidentialisms**.

Further Details

[González-Bustamante \(2022\)](#)

Detail of the Batches of the LAWR Archives

Batch	Archives	Years	Format	Volume
Batch-01	LAWR-1975 to LAWR-1979 Including 1997	5	CSV UTF-8	9.56 MB
Batch-02	LAWR-1980 to LAWR-1998 Excluding 1997 Including the first half of 2003	18.5	PNG images	38.5 GB
Batch-03	LAWR-1999 to LAWR-2021 Excluding the first half of 2003	22.5	PDF files	341 MB

Note: Revision of 12 Latin American countries thanks to St Hilda's College Muriel Wise Fund and subscriptions of the Bodleian Libraries at the University of Oxford.

Binarisation Algorithms

POLITICS		POSTSCRIPT	
WORLDWIDE BANNED		PERIODIC VIOLENCE	
François Mitterrand	France: Virginie	1980	1,140
John Gutfreund	U.S.: Salomon Brothers	1981	1,140
Robert Mugabe	Zimbabwe: Robert Mugabe	1982	1,140
Heath, Prime Minister	U.K.: Margaret Thatcher	1983	1,140
Amédée Miquet	France: Amédée Miquet	1984	1,140
John Major	U.K.: John Major	1985	1,140
Alain Poher	France: Alain Poher	1986	1,140
Ariane Attalé	France: Ariane Attalé	1987	1,140
Tourist, Queen Elizabeth II	U.K.: Queen Elizabeth II	1988	1,140
Marco Belotti	Italy: Marco Belotti	1989	1,140
Fernando de la Rúa	Argentina: Fernando de la Rúa	1990	1,140
Enrique Peñalosa	Colombia: Enrique Peñalosa	1991	1,140
Guillermo Varela	Uruguay: Guillermo Varela	1992	1,140
John Paul II	Papal: John Paul II	1993	1,140
Barack Obama	U.S.: Barack Obama	1994	1,140
George W. Bush	U.S.: George W. Bush	1995	1,140
Bill Clinton	U.S.: Bill Clinton	1996	1,140
Al Gore	U.S.: Al Gore	1997	1,140
George W. Bush	U.S.: George W. Bush	1998	1,140
Barack Obama	U.S.: Barack Obama	1999	1,140
John McCain	U.S.: John McCain	2000	1,140
George W. Bush	U.S.: George W. Bush	2001	1,140
John Edwards	U.S.: John Edwards	2004	1,140
Barack Obama	U.S.: Barack Obama	2008	1,140
John McCain	U.S.: John McCain	2012	1,140
Barack Obama	U.S.: Barack Obama	2016	1,140
BANNED IN ONE Country		COSTUME	
Ci-Ji January Festival	China: Ci-Ji January Festival	1980	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1981	1,140
St. Lucia Day	Sweden: St. Lucia Day	1982	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1983	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1984	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1985	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1986	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1987	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1988	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1989	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1990	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1991	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1992	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1993	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1994	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1995	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1996	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1997	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1998	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	1999	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2000	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2001	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2002	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2003	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2004	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2005	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2006	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2007	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2008	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2009	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2010	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2011	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2012	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2013	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2014	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2015	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2016	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2017	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2018	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2019	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2020	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2021	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2022	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2023	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2024	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2025	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2026	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2027	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2028	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2029	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2030	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2031	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2032	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2033	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2034	1,140
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Shrove Tuesday	U.K.: Shrove Tuesday	2036	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2037	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2038	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2039	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2040	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2041	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2042	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2043	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2044	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2045	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2046	1,140
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Shrove Tuesday	U.K.: Shrove Tuesday	2049	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2050	1,140
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Shrove Tuesday	U.K.: Shrove Tuesday	2052	1,140
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Shrove Tuesday	U.K.: Shrove Tuesday	2054	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2055	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2056	1,140
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Shrove Tuesday	U.K.: Shrove Tuesday	2058	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2059	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2060	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2061	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2062	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2063	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2064	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2065	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2066	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2067	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2068	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2069	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2070	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2071	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2072	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2073	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2074	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2075	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2076	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2077	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2078	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2079	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2080	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2081	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2082	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2083	1,140
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Shrove Tuesday	U.K.: Shrove Tuesday	2085	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2086	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2087	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2088	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2089	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2090	1,140
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Shrove Tuesday	U.K.: Shrove Tuesday	2092	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2093	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2094	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2095	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2096	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2097	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2098	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2099	1,140
Shrove Tuesday	U.K.: Shrove Tuesday	2100	1,140
COSTUME		BRAZILIAN BIA	
1980	1,140	1980	1,140
1981	1,140	1982	1,140
1983	1,140	1984	1,140
1985	1,140	1986	1,140
1987	1,140	1988	1,140
1989	1,140	1990	1,140
1991	1,140	1992	1,140
1993	1,140	1994	1,140
1995	1,140	1996	1,140
1997	1,140	1998	1,140
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2001	1,140	2002	1,140
2003	1,140	2004	1,140
2005	1,140	2006	1,140
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2009	1,140	2010	1,140
2011	1,140	2012	1,140
2013	1,140	2014	1,140
2015	1,140	2016	1,140
2017	1,140	2018	1,140
2019	1,140	2020	1,140
2021	1,140	2022	1,140
2023	1,140	2024	1,140
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2029	1,140	2030	1,140
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2033	1,140	2034	1,140
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2077	1,140	2078	1,140
2079	1,140	2080	1,140
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2085	1,140	2086	1,140
2087	1,140	2088	1,140
2089	1,140	2090	1,140
2091	1,140	2092	1,140
2093	1,140	2094	1,140
2095	1,140	2096	1,140
2097	1,140	2098	1,140
2099	1,140	2100	1,140
GOLF CHAMPIONSHIP		PERIODIC VIOLENCE	
1980	1,140	1981	1,140
1982	1,140	1983	1,140
1984	1,140	1985	1,140
1986	1,140	1987	1,140
1988	1,140	1989	1,140
1990	1,140	1991	1,140
1992	1,140	1993	1,140
1994	1,140	1995	1,140
1996	1,140	1997	1,140
1998	1,140	1999	1,140
2000	1,140	2001	1,140
2002	1,140	2003	1,140
2004	1,140	2005	1,140
2006	1,140	2007	1,140
2008	1,140	2009	1,140
2010	1,140	2011	1,140
2012	1,140	2013	1,140
2014	1,140	2015	1,140
2016	1,140	2017	1,140
2018	1,140	2019	1,140
2020	1,140	2021	1,140
2022	1,140	2023	1,140
2024	1,140	2025	1,140
2026	1,140	2027	1,140
2028	1,140	2029	1,140
2030	1,140	2031	1,140
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2040	1,140	2041	1,140
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2074	1,140	2075	1,140
2076	1,140	2077	1,140
2078	1,140	2079	1,140
2080	1,140	2081	1,140
2082	1,140	2083	1,140
2084	1,140	2085	1,140
2086	1,140	2087	1,140
2088	1,140	2089	1,140
2090	1,140	2091	1,140
2092	1,140	2093	1,140
2094	1,140	2095	1,140
2096	1,140	2097	1,140
2098	1,140	2099	1,140
2100	1,140	2101	1,140

Note: Images correspond to a LAWR page before binarisation and after the application of techniques of [Sauvola and Pietikäinen \(2000\)](#) and [Su et al. \(2010\)](#).

Tesseract OCR Algorithm



Year and Week

Headline

Paragraphs

How Domingo Cavallo rose to become Menem's virtual prime minister

Argentina is still fully debating what lay behind the sudden reorganization of President Fernando de la Rúa's cabinet. Emilio González and his replacement as Minister of Economy, Domingo Cavallo, have emerged as the two main candidates. The simple explanation — the result of a political maneuver by another minister — is dismissed as sufficient even by those who believe widespread corruption in the highest echelons of government. Cavallo, it is said, has been plotting about all sorts of political moves.

One thing seems certain: that the new ministerial reshuffle, his recognition of Menem — and an attempt to distance himself from his predecessor, the late President Carlos Menem — was the result of a well-accepted version of the facts. In other words, the reason why Cavallo is his economy minister is that he is seen as the best candidate for the job. This is an option that many prominent economists and political leaders in Argentina have been advocating since 1989. ■

INSIDE

PFTU: Workers spread of strike
Ecuador: Holiday measures impact on firms
Colombia: Protests of MSL, oil workers, and OASCO

VENEZUELA: Lower prices
Brazil: New funds for
Argentina: Oil workers
BOLIVIA: A Soviet partner
Paraguay: Placing more
PERU: Holiday measures impact on firms
COSTA RICA: Planning & construction
CHILE: Industrialization
PHILIPPINES: Placing more
INDIA: Oil workers
PAKISTAN: Industrial
sector strengthens
PEOPLES: Time to recall
Foreign officials? ■

INSIDE

EL SALVADOR: Strike
measures impact on firms
BOLIVIA: A Soviet partner
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INSIDE

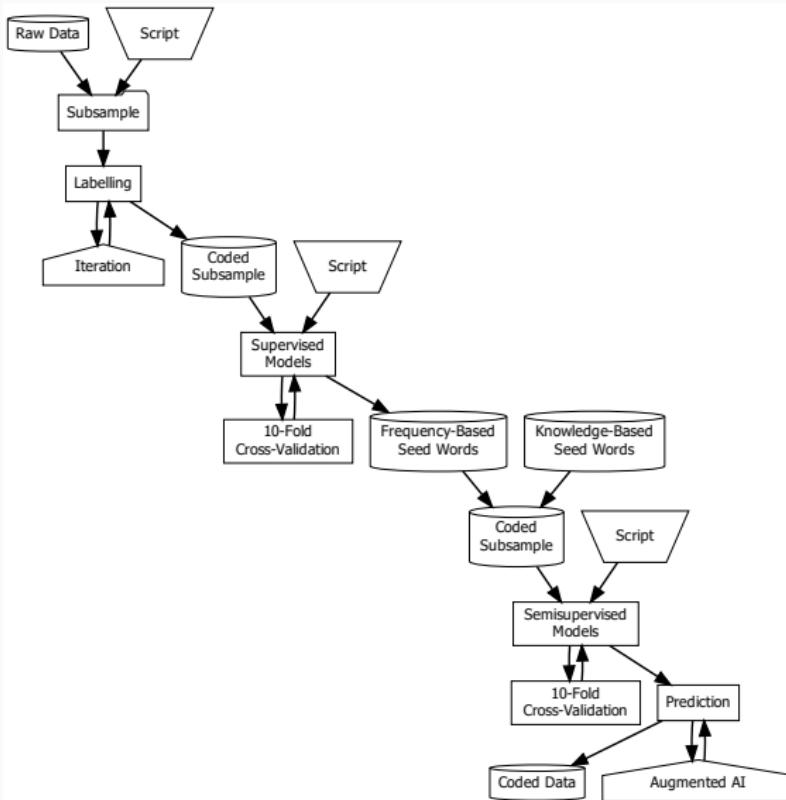
VENEZUELA: Lower prices
Brazil: New funds for
Argentina: Oil workers
BOLIVIA: A Soviet partner
Paraguay: Placing more
PERU: Holiday measures impact on firms
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INSIDE

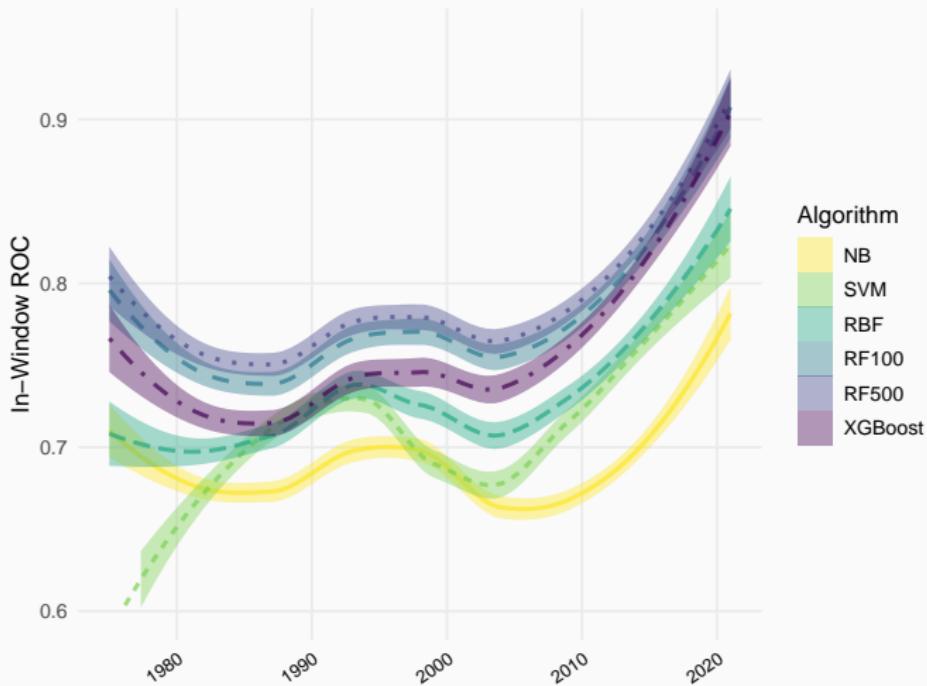
EL SALVADOR: Strike
measures impact on firms
BOLIVIA: A Soviet partner
Paraguay: Placing more
PERU: Holiday measures impact on firms
COSTA RICA: Planning &
construction
CHILE: Industrialization
sector strengthens
PEOPLES: Time to recall
Foreign officials? ■

Tab-Stop Lines — Column Layout — Segmented Blocks

Machine Learning Algorithms Training Pipeline

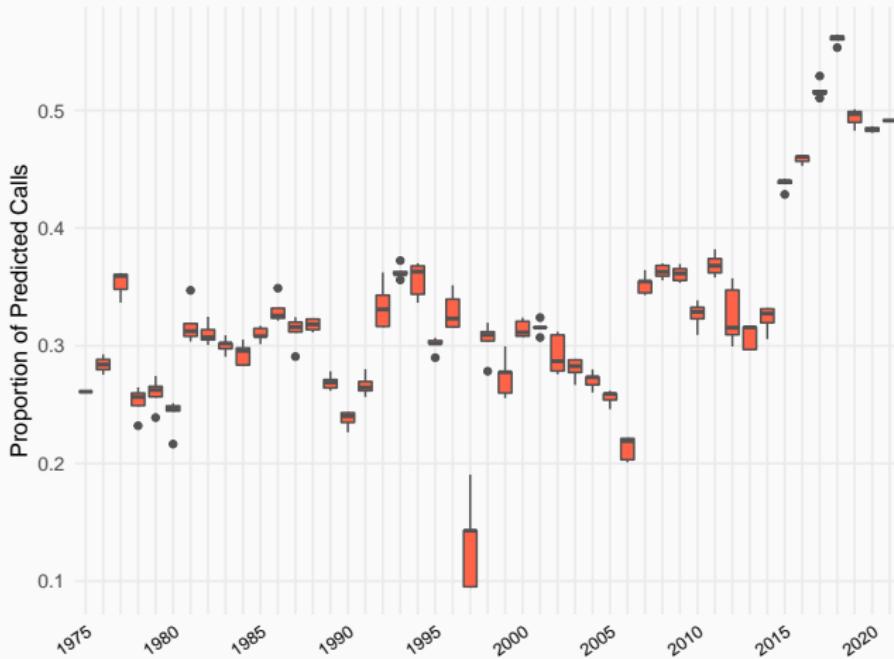


Performance of the Semisupervised Models (1975-2021)



Note: Indicators 10-fold cross-validated in a five-year rolling window.

Predicted Ministerial Resignation Calls (1975-2021)



Note: Predictions proportion over the mentions carried out with the ensemble semisupervised Random Forest (500 trees) in the five-year rolling window.

Preservation and Data Sharing

The data set will be deposited in the digital repository  **Oxford Research Archive for Data** (ORA-Data) in  CSV UTF-8 format with its codebook and standardised metadata. The data set will remain **under embargo** until October 2023 (to be confirmed).

It will then be available for reuse under an  **open-access licence** that allows sharing and adapting the material without additional restrictions as long as appropriate acknowledgement is given.

Further technical details on storage, formats and replicability are available in the Data Management Plan (DMP ID 85349).

References I

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Thank you very much!

